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A.D. 1861, *12th JUNE.*      N° 1506.

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S P E C I F I C A T I O N

OF

LOUIS JEAN JACQUES PÈTRE.

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SMOKE-CONSUMING GRATE.

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LONDON:

PRINTED BY GEORGE E. EYRE AND WILLIAM SPOTTISWOODE,

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*Filed 8th*

1861.







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### Smoke-consuming Grate.

*(This Invention received Provisional Protection only.)*

PROVISIONAL SPECIFICATION left by Louis Jean Jacques Pètre at the Office of the Commissioners of Patents, with his Petition, on the 12th June 1861.

I, LOUIS JEAN JACQUES PÈTRE, of 29, Boulevard St. Martin, Paris, Merchant, do hereby declare the nature of the said Invention for “AN IMPROVED SMOKE-CONSUMING GRATE,” to be as follows:—

My Invention relates to a new arrangement of furnace grate for the consumption of smoke, composed of fire bars, each having two parallel side cheeks, or flanges connected at the upper part at intervals by tie pieces cast on the cheeks. The upper surface of the fire-bar may be of a round, square, elliptical, triangular, or other form ; it is also provided at intervals with elongated holes arranged in various ways to allow air introduced at the under part of the grate to pass between the cheeks and through the holes in the bars into the centre of the fuel, so as to obtain more perfect combustion.

In order to obtain a more equal distribution of air throughout the furnace the cheeks of the fire-bars are connected by ties at suitable distances apart, which are cast on the bars and may be of various forms & dimensions. The cheeks which form the two sides of the bars, as also the ties placed between them, are of the form of an elongated triangle, the base of which is at the upper part & the apex at the lower part of the fire-bar, which arrangement is for the purpose of more readily distributing the air, facilitating its introduction between the cheeks of the bars, & reducing the resistance to its passage. I sometimes make the two cheeks of the fire-bar of different depths.

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Printers to the Queen's most Excellent Majesty. 1861.

